

***TECHNICAL OPERATIONAL SPECIFICATIONS OF
THE TECHNICAL RULES OF APPENDIX B TO MIN.
DECREE 55 OF 3 APRIL 2013***

Version 1.1

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1. INTRODUCTION

This document illustrates the technical specifications referred to in appendix B of Italian Min. Decree 55 of 3 April 2013, relative to the computerised solutions to be used for the issue and transmission of the invoices referred to in article 1, paragraph 213, letter b), of law n° 244 of 24 December 2007, as well as those which can guarantee certification of the data, the authenticity of the origin and of the complete nature of the content of the electronic invoice referred to in article 1, paragraph 213, letter g-bis), of Italian law n° 244.

1.1 DEFINITIONS

For the purposes of this document, the following terms are used with the meanings given below:

- Administration: the subjects identified by art. 1 of Min. Decree 55 of April, 2013, as the addressees of the invoice;
- Certifier: the public or private subject which issues certificates qualified by signature conforming to European Directive 1999/93/EC and the applicable national directives;
- Agency for Digital Italy (formerly *DigitPA*, formerly *CNIPA*): the National Centre for computerisation in Public Administration;
- Electronic Invoice: the computerised document, not containing an executable code or macro-instructions, in structured format in according to appendix A of Italian Min. Decree 55 of 3 April 2013, transmitted electronically to the Exchange System and delivered via this latter to the addressee Administration; it can refer to a single invoice or to a batch of invoices;
- Qualified electronic signature: the electronic signature which guarantees the single connection to the signatory and this latter's unequivocal identification, based on a qualified certificate and produced by means of a secure device for the creation of the signature;
- Supplier: the subject which issues the invoice to the Administration;
- FTP (File Transfer Protocol): the data transfer system between remote systems;
- HTTPS (HyperText Transfer Protocol Secured): the protocol for data transmission via the web with a further cryptographic and authentication level of the data transmitted (SSL - Secure Sockets Layer);
- Intermediary: the subject of which the supplier takes avail for the issue and/or transmission of the electronic invoices to the Exchange System, or of which the Administration takes avail for receiving the same from the Exchange System;

- SOAP message: XML message, with a structure composed of a header and a body, used in dialogues between web services;
- Time reference: the information containing the date and time associated to one or more electronic documents, together with the qualified electronic signature of the electronic invoice;
- ES: the Exchange System, i.e. the structure introduced by the Ministry of Economy and Finance by which the transmission of the electronic invoices addressed to the Administration takes place (art. 1, paragraph 211, of Italian law n° 244 of 24 December 2007);
- SPC: the Public Connectivity System referred to by articles 73 and those subsequent of the Digital Administration Code;
- SPCoop: the part of the SPC which serves for the interaction between Public Administration information systems and between these and citizens;
- WSDL (Web Service Definition Language): the language based on XML to define a web service and to describe the access procedures;
- XML (Extensible Markup Language): the series of rules for structuring, in text format, the data to be processed.

2. ELECTRONIC INVOICE ISSUE PROCEDURES

This chapter describes the technical specifications for issuing electronic invoices, with reference to the format of presentation and the features of the document to be transmitted.

The data of the electronic invoice to be transmitted by means of the ES must be presented in XML format (eXtensible Markup Language), according to the scheme and rules given in the *Technical Specifications of the format of PA invoices* published on the Exchange System site www.fatturapa.gov.it in the section [FatturaPA documentation](#).

2.1 ELECTRONIC SIGNATURE FORMAT AND TIME REFERENCE

The ES accepts as an electronic invoice a computerised document bearing a time reference, which is signed electronically by a qualified electronic signature certification, not containing macro-instructions or executable codes such as to activate functions that can modify the deeds, the facts or the data represented in the same.

The qualified electronic signature qualification must be issued by an approved certifier, present on the public list of certifiers held by the Agency for Digital Italy, as disciplined by art. 29, paragraph 1, of Italian legislative decree n° 82 of 7 March 2005 and successive amendments.

The formats admitted for electronically signing the invoice are the following:

- **CAdES-BES** (CMS Advanced Electronic Signatures) with structure adhering to the public specifications ETSI TS 101 733 V1.7.4, as contemplated by the legislation in force since 1 September 2010;
- **XAdES-BES** (XML Advanced Electronic Signatures), with structure compliant with the public specifications ETSI TS 101 903 version 1.4.1, as contemplated by the legislation in force since 1 September 2010;

Within the sphere of the XML signature format, the only procedure accepted is the "enveloped" format. In addition, the XAdES signature must have the Reference element with URI="" or with URI="#iddoc" where iddoc is the identity code of the document to be signed: the URI attribute cannot be omitted from the Reference elements.

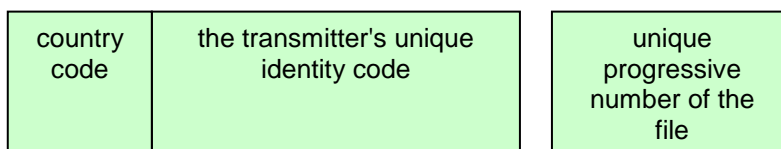
As a time reference, the ES takes the "signing time" attribute which must be present in the electronic signature placed on the document.

2.2 NAMES OF THE FILES TO BE TRANSMITTED

The electronic invoices must be transmitted to the ES in the form of files according to one of the procedures described below:

- a) a file containing a single invoice;
- b) a file containing a single batch of invoices (where the “batch” is understood in the meaning of art. 21, paragraph 3, of Italian decree n° 633 of 1972);
- c) a file in compressed format containing one or more type a) files and/or one or more type b) files; the accepted compression format is the ZIP format.

In cases a) and b) the **name of the file** must be composed as follows:



where:

- the *country code* is expressed according to the standard ISO 3166-1 alpha-2 code;
- the *Transmitter's Unique Identity Code*, whether for an individual or a corporate entity, is represented by their tax identification (*codice fiscale* tax ID number, in the case of a transmitter resident in Italy, identity code in use in the country of residence in the case of a transmitter resident outside Italy); the length of the said identify code is:
 - o 11 characters (minimum) and 16 characters (maximum) if the country code is IT;
 - o 2 characters (minimum) and 28 characters (maximum) in all other cases;
- the *progressive unique file code* consists of an alphanumeric string with a maximum length of 5 characters chosen [a-z],[A-Z],[0-9].

The file must be electronically signed (as indicated above in paragraph 2.1); on the basis of the electronic signature format adopted, the file extension will be “.xml” or “.xml.p7m”.

The separator between the second and third elements of the file name is the underscore (“_”) character, ASCII code 95.

e.g.: *ITAAABBB99T99X999W_00001.xml*

IT9999999999_00002.xml.p7m

In case c) the **file name** must be composed in the same way and the file extension can only be .zip.

In this case, it is not the compressed file (.zip) which must be signed electronically, but every file that it contains.

e.g.: *ITAAABBB99T99X999W_00001.zip*

which contains, for instance

ITAAABBB99T99X999W_00002.xml

ITAAABBB99T99X999W_00003.xml

ITAAABBB99T99X999W_00004.xml.p7m

The file name, as described, is kept when the file is forwarded to the Administration. If a file of the type indicated in case c) (a compressed file) is sent to the ES, the ES transmits to the addressee Administration the file, or files contained in the same, and not the compressed file.

3. TRANSMISSION MODE FOR INVOICES, RECEIPTS AND NOTIFICATIONS

This chapter describes the specific techniques for the use of the transmission channels for files containing invoices, as described in the preceding paragraph 2.2, and the receipt and notification messages.

3.1 TRANSMISSION OF FILES TO THE ES

Files can be transmitted to the ES in the following ways:

- a certified electronic mail system, or similar email system based on technologies which certify the date and time of the transmission and receipt of the communications and the integrity of the content of the same, hereinafter "*CEM service*";
- an application cooperation system, on the Internet, with service made available by means of "web service" model which can be used by HTTPS protocol, hereinafter "*SDICoop Service*";
- an application cooperation system by means of a domain port in the Public System of Cooperation (SPCoop) environment, hereinafter "*SPCoop Service*";
- a data transmission system between remote terminals based on FTP protocol, hereinafter "*SDIFtp Service*";
- an electronic transmission system through the Exchange System website www.fatturapa.gov.it .

3.1.1 CERTIFIED ELECTRONIC MAIL (CEM SERVICE)

The subject intending to use the certified electronic mail must take avail of a manager with which it intends to maintain an agreement aimed at the availability of the CEM service. The said manager must be among those included on the special public list managed by the Agency for Digital Italy, as disciplined by arts. 14 and 15 of Italian Presidential Decree n° 68 of 11 February 2005 ("Regulation bearing provisions for the use of certified electronic mail, pursuant to art. 27 of law n° 3 of 16 January 2003" - Official Journal n° 97 of 28 April 2005).

The file to be transmitted is an attachment to the email message.

The message with relative attachment must not exceed 30 megabytes, the maximum limit within which the manager must guarantee the transmission, as contemplated by art. 12 of Italian ministerial decree of 2 November 2005 ("Technical rules for the formation, transmission and validation, also temporal, of certified electronic mail" - Official Journal n° 266 of 15 November 2005); a single message may have one or more attachments providing the total is within the said limit.

The use of CEM guarantees in itself the identification of the sender; therefore procedures for the identification of the subject preparatory to the transmission are not necessary and consequently the ES enters into contact with the sender for the first time when a first email is received.

To guarantee efficient management of the transmission process, the ES uses several CEM addresses by which to receive the files; the procedure for the management of the addresses is described below.

The first time the sender intends to use the CEM, he/she must send the message and the relative attached files to the certified email address of the ES published at the website www.fatturapa.gov.it; the ES, with the first message in answer, notifies an error, receipt of the delivery, rejection notice or proof of invoice transmission with impossibility of delivery, communicates to the sender the CEM address to use for any successive transmissions and which will also be used by the ES for the messages of reply; in this way the ES identifies a dedicated, but not exclusive, CEM address for dialogue with every transmitting subject.

The use of a different CEM address from the one assigned by the ES does not guarantee that the email message will be successfully received by the ES.

In the case of the normal transmission flow via CEM, if the forwarding and receiving process is successful, two receipts will be delivered to the sender: one of acceptance on the part of his/her own mail manager, and another of delivery on the part of the addressee's mail manager; this latter does not in itself guarantee that the message and relative attachment has been read, but only that it has been deposited in the ES mailbox.

The fact that the message has been read by the ES, and the correct delivery of the attached invoice to the addressee administration, are certified by the ES itself by the preparation and forwarding of ad-hoc receipts and notifications to the sender, according to the communication system described in paragraph 4.5 below.

3.1.2 APPLICATION COOPERATION ON THE INTERNET (SDICOOP SERVICE)

The ES makes a web service available on the internet, which can be called up by an information system or an application, and allows files to be transmitted as attachments to an SOAP message.

The maximum size of the file attached to the message must be 5 megabytes.

Unlike the CEM which allows a single message to be sent with several attachments up to a total size of 30 megabytes, this procedure allows for the transmission of only one file at a time (a single invoice rather than a batch of invoices or an archive of invoices).

The service illustrated has the following features:

- HTTPS protocol for transport;
- SOAP (with attachments) as standard for messages;
- MTOM (Message Transmission Optimization Mechanism);
- WSDL (Web Services Description Language) to describe the public interface of the web service;
- authentication and authorisation based on the use of certificates.

This transmission method requires:

- the undersigning on the part of the transmitting subject of a special service agreement;
- management of the digital (certified) identity for registration.

To use the service, it is necessary to sign a service agreement (paragraph 4); this agreement regulates the telematic flow between the transmitter and the ES and the telematic flow of information relative to the notifications and receipts.

After signing the said service agreement, the ES then "qualifies" the caller system with a series of interoperability tests to check on the correct nature of the dialogue, and therefore on the issue of an electronic certificate for registration of the subject calling the service in question.

The file, sent as a SOAP attachment, must be identified according to the naming rules indicated in paragraph 2.2.

All the information on the procedures for the use of the service, such as the formal description through the WSDL of the services, are reported in the document *Instructions for the SDICoop Service - Transmission*) published on the website www.fatturapa.gov.it in the section [Exchange System Documentation](#).

3.1.3 DOMAIN PORT IN SPCOOP ENVIRONMENT (SPCOOP SERVICE - TRANSMISSION)

The use of this mode is possible for subjects registered on SPC network who have a domain port qualified according to the technical rules of the SPC-Coop decree of the Prime Minister's department of 1 April 2008 published in the Official Journal n° 144 of 21 June 2008.

The ES has a qualified domain port on SPC network according to the methods and features contemplated by the regulations of reference for cooperation services via application ports.

The service allows for the transmission of invoices as files attached to an e-gov envelope; as well as for SDICoop service, this mode allows the transmission of only one file (single invoice or batch of invoices or store invoices) at a time. The maximum size of the file attached to the message is 5 megabytes.

To establish a service agreement between transmitting subjects and the ES, a service agreement deed must be stipulated according to the procedures described in the document SPCoop-AccordoServizio_v1.1 (SPCoop-ServiceAgreement_v1.1) available for consultation at:

http://www.agid.gov.it/sites/default/files/documentazione/spcoop-accordoservizio_v1.1_0.pdf

The said service agreement is published in the General Register instituted for the management of the service agreements within the SPCoop environment (the IIS (Interoperability Infrastructure Services) register).

All the information on the procedures to use the service, as well as the formal description through the WSDL of the services, is illustrated in the document *Instructions for the SPCoop Service - Transmitter* published at the website www.fatturapa.gov.it in the section [Exchange System Documentation](#).

3.1.4 DATA TRANSMISSION SYSTEM BETWEEN REMOTE TERMINALS BASED ON FTP PROTOCOL (SDIFTP SERVICE)

The forwarding of the files to the ES, subject to agreement with the subjects concerned to discipline particular aspects of transmission, is possible through interconnection protocols and transmission channels, also possibly already in use (albeit for other purposes) in the relations with the Financial Administration, to be placed and/or to be integrated in the SPC environment, in compliance with the SPC technical rules, and in any case in closed circuits which allow for certain identification of the participants and which guarantee the security of the channel.

The file container must not exceed 150 megabytes.

To use the service, it is necessary to sign a service agreement (paragraph 4.2); this agreement regulates the telematic flow between the transmitter and the ES and the telematic flow of information relative to the notifications and receipts.

All the information on the procedures for the use of the service, as well as the formal description through the WSDL of the services, are illustrated in the document *Instructions for the SDIFtp Service* published at the website www.fatturapa.gov.it in the section [Exchange System Documentation](#).

3.1.5 FORWARDING BY WEB

This method involves the use of a function for telematic transmission via internet on a secure channel, available in the section *Forwarding the PA Invoice* at the site www.fatturapa.gov.it; by this function, the transmitter can send the invoice or the folder of invoices (the size of the file to be transmitted cannot exceed 5 megabytes); after the invoice has been sent, the user can wait directly on-line for the result of the checks carried out on the invoice/s and directly receive the delivery receipt or the possible failure notification, or he/she can visualise the result of the transmission later by access to the area *PA Invoice Monitoring* available at the ES site.

3.2 TRANSMISSION OF THE FILE TO THE ADMINISTRATION

The ES transmits the invoice to the addressee Administration by forwarding the incoming file using transmission channels similar to those used for reception.

The procedures for forwarding are:

- a certified electronic mail system, or a similar electronic mail system based on technologies which certify the date and time of the transmission and of the receipt of the communications, and the intact nature of the content of these, hereinafter the “*CEM Service*”;
- a system of domain ports in the Public System of Cooperation (SPCoop), hereinafter “*SPCoop Service - Reception*”;
- a data transmission system between remote terminals based on FTP protocol, hereinafter the “*SDIFtp Service*”.

The ES not only transmits the file received but also sends the data that are useful for facilitating the processing of the file itself on the part of the receiver; the data are given in the message “notification of the invoice file meta data” (ref. paragraph 4.5) which is transmitted as an XML file.

3.2.1 CERTIFIED ELECTRONIC MAIL (CEM SERVICE)

The Administration which, to receive the electronic files from the ES intends to use certified electronic mail, must take avail of a manager with which it maintains an agreement for the provision of a CEM service. The said manager must be one of those on the special public list managed by the Agency for Digital Italy, as disciplined by arts. 14 and 15 of Italian Presidential Decree n° 68 of 11th February 2005 (“Regulation with provisions for the use of certified electronic mail, pursuant to art. 27 of law n° 3 of 16th January 2003” – Official Journal n° 97 of 28th April 2005).

The ES will use, as the CEM address, that indicated in correspondence of the office code given in the database of reference, according to the rules and procedures described in appendix D to Italian Ministerial Decree n° 55 of 3rd April 2013 and in the operating specifications published on the website www.indicepa.gov.it.

The file forwarded is the attachment to the email message; always attached to the same email message, the ES will also transmit the file “notification of invoice file meta data” (ref. paragraph 4.5): every email message will carry attached to the same a single “invoice file” and a single “meta data file”.

According to the normal certified email transmission flow, if the forwarding and reception process is successful, two receipts will be sent to the CEM mailbox of the ES: one of acceptance on the part of its own email manager, and another of delivery on the part of the addressee’s email manager; the latter confirms that the message and the relative attachments have been deposited in the addressee’s CEM mailbox and for the ES has the value of confirming that the invoice has been made available to the Administration, therefore giving rise to the forwarding of the “receipt of delivery” to the transmitter (ref. paragraph 4.5).

3.2.2 DOMAIN PORTS IN SPCOOP ENVIRONMENT (SPCOOP SERVICE – RECEPTION)

The use of this mode is possible for subjects registered on SPC network and which have availability to a domain port which is qualified as set out by the technical rules of the SPC-Coop Prime Ministerial Decree of 1st April 2008 published in the Official Journal n° 144 of 21st June 2008.

The service, available from a qualified domain port, allows the ES to transmit the invoice file and the “notification of the invoice file metadata” file (ref. paragraph 4.5) as an attachment to an e-gov envelope.

To establish a service agreement between the ES and the receiving Administration, a service agreement must be stipulated (paragraph 4); the agreement will discipline the telematics flow for the transmission of the electronic invoices and the telematics flow for the transmission of the notifications.

The service agreements are established according to the methods described in the document SPCoop-Service Agreement_v1.1 (document available for consultation at http://www.agid.gov.it/sites/default/files/documentazione/spcoop-accordoservizio_v1.1_0.pdf).

The said agreements are published in the General Register instituted for the management of the service agreement in SPCoop environment (IIS [Interoperability Infrastructure Services] Register),

All the information relative to the qualification procedures and those for the use of the service, as well as regarding the formal WSDL description of the services illustrated by the

ES, are given in the document *Instructions for the SPCoop Service – Reception* published on the website www.fatturapa.gov.it in the section [Exchange System Documentation](#).

3.2.3 DATA TRANSMISSION SYSTEM BETWEEN REMOTE TERMINALS BASED ON FTP PROTOCOL (SDIFTP SERVICE)

The forwarding of the files by the ES to the addressee is possible, subject to agreement with those concerned in disciplining specific transmission aspects, by interconnection protocols and transmission systems also possibly already in use (albeit for other purposes) in relations with the Financial Administration, to be placed and/or integrated in SPC environment, in compliance with the SPC technical rules and, in any case, in closed circuits which allow for the certain identification of the participants and which guarantee the security of the channel.

To use the service, a service agreement must be stipulated (paragraph 4.2); the agreement regulates the telematic flow between the ES and the receiving subject and the telematic flow of information relative to the notifications and receipts.

All the information relative to the procedures for the use of the service, as well as the formal WSDL description of the services, are given in the document *Instructions for the SDIFtp Service* published on the website www.fatturapa.gov.it in the section [Exchange System Documentation](#).

3.3 METHOD FOR FORWARDING COMMUNICATIONS ON THE PART OF THE ES

The communications produced by the ES are forwarded, unless other indications are given, through the same channel as that used for the transmission of the invoice file. The communications are composed of electronically signed XML files, with an **XAdES-BES** signature (XML Advanced Electronic Signatures) in “enveloped” mode, with a structure adhering to the public specification ETSI TS 101 903 version 1.4.1; the files are transmitted as attachments to the messages contemplated for the various transmission channels. The XML structure of the communication files is detailed in the document “Format of the ES communication files – guide for use” (ref. Appendix B-1).

In particular:

- in the case of the “*CEM service*”, the communications are sent to the CEM address of the sender or the addressee of the invoice file; the CEM messages are composed of a “Human Readable” version (the body of the message) and by attached XML files;
- in the case of the “*SDICoop Service*”, the agreement contemplates that the subject which has transmitted the invoice file can take avail of a similar service through the ES for the forwarding of the communications as XML files attached to the soap envelope;

- in the case of the “*SPCoop Service*” the agreement contemplates that the subject which has transmitted or received the invoice file can also take avail of a similar service through the ES for forwarding communications as XML files attached to the e-gov envelope;
- in the case of the “*SDIFtp Service*”, the communications are forwarded using the same protocol and through the same channel (in the case of a two-way channel) or a dedicated channel (in the case of a one-way channel);
- in the case of the telematics transmission through the service available at www.fatturapa.gov.it, the communications can be found, as XML files, through the function *PA Invoice Monitoring* available at the ES site.

3.4 METHODS FOR FORWARDING COMMUNICATIONS FROM THE ADDRESSEE TO THE ES

The communications that the receiving Administration must send to the ES are forwarded, unless otherwise indicated, through the same channel used for the transmission of the invoice file from the ES to the said Administration. The communications are in the form of XML files which are transmitted as attachments to the messages contemplated for the diverse transmission channels. The XML structure of the communication files is detailed in the document “Format of the ES communication files – guide for use” (ref. Appendix B-1).

The files, at the Administration’s discretion, can be electronically signed, with an **XAdES-BES** signature (XML Advanced Electronic Signatures) in “enveloped” mode, with structure adhering to the public specification ETSI TS 101 903 version 1.4.1 (paragraph 2.1).

In particular:

- in the case of “*CEM service*”, the communications are sent by the Administration to the same CEM address used by the ES for the transmission; the CEM messages are constituted of a “Human Readable” version (the body of the message) and the attached XML file;
- in the case of “*SPCoop Service - Reception*” the agreement contemplates a similar service made available by the ES to the Administration for the forwarding of the communications as XML files attached to the e-gov envelope;
- in the case of “*SDIFtp Service*”, the communications are forwarded using the same channel (in the case of a two-way channel) or a dedicated channel (in the case of a one-way channel).

In any case, regardless of the mode used for receiving the invoice, the receiving Administration can transmit the return communications to the ES via CEM.

4. METHOD FOR INTERACTION WITH THE EXCHANGE SYSTEM

This chapter describes the operating procedures for the transmission of the electronic invoices through the ES, and the exchange of information (receipts, notifications) between the subjects involved in the process.

4.1 PROCEDURE FOR THE RECOGNITION OF THE RECEIVING ADMINISTRATION FOR THE PURPOSES OF INTERACTION WITH THE ES

The receiving Administration can effectively interact with the ES only if certain indispensable requisites for its qualification and recognition are satisfied.

Such requisites are recognised as satisfied by means of the following activities:

- entry and updating of the data of competence in the Register of Public Administrations (RPA) according to the rules laid down in appendix D to Italian Ministerial Decree n° 55 of 3rd April 2013 and in the technical specifications published on the site www.indicepa.gov.it and according to the procedures prescribed by the technical rules of the SPC-Coop Italian Prime Ministerial Decree of 1st April 2008 published in the Official Journal n° 144 of 21st June 2008;
- definition of the transmission channel through:
 - the adoption of a certified electronic mailbox or an equivalent email address based on technologies which certify the date and time of the transmission and of the receipt of the communications and the intact nature of the content of the same;
 - the qualification of the domain port (DP- SPCoop), according to the rules issued by the Agency for Digital Italy, and the execution of the reception service and publication of the relative service agreement, according to the manner and the specifications published on the site www.fatturapa.gov.it;
 - the definition of an agreement to discipline the transmission of the invoice, and relative notification messages, through “file transfer “protocols within closed circuits which allow for certain identification of the participants and which guarantee the security of the channel.

4.2 PROCEDURE FOR RECOGNITION OF THE SUPPLIER FOR THE PURPOSE OF INTERACTION WITH THE ES

The supplier can effectively interact with the ES only if certain minimum indispensable requisites for identification of the same are satisfied.

Such requisites are recognised as satisfied by defining one or more transmission/communication channels through:

- the holding of a certified electronic mailbox or a similar email address based on technologies which certify the date and time of the transmission and reception of the communications and the intact nature of the content of the same;
- adhesion to and the undersigning of a service agreement with the ES;
- definition of an agreement to discipline the transmission of the invoice, and relative notification messages, by “file transfer” protocols within closed circuits which allow for certain identification of the participants and which guarantee the security of the channel.

In the case of the use of the telematic forwarding service available at www.fatturapa.gov.it, identification takes place by the indication of the tax ID number and the password issued by the Revenue Agency’s telematic services, Fisconline or Entratel, or, alternatively, by the use of a Smartcard type device which corresponds to the CNS (*Carta Nazionale dei Servizi*: National Services Card), previously registered with the Revenue Agency’s telematic services.

4.3 PROCEDURE FOR FORWARDING THE INVOICE TO THE ES

The procedure for forwarding the invoice to the ES involves:

- the supplier;
- the Exchange System;
- the transmitting subject (if different from the supplier).

The steps can be summed up as follows:

- the supplier prepares the electronic invoice as indicated in paragraph 2 above;
- on the invoice thus prepared the supplier, or a third party delegated to issue the invoice on behalf of the supplier, applies the qualified electronic signature and the time reference (as described in paragraph 2);
- the file thus generated is transmitted (directly by the supplier or by the transmitting third party) to the ES by means of the channels and procedures illustrated in paragraph 3 above.

4.4 PROCEDURE FOR FORWARDING THE INVOICE TO THE ADMINISTRATION

The procedure for forwarding the electronic invoice from the ES to the Administration involves:

- the Exchange System;
- the addressee Administration;
- the receiving subject (if different from the addressee Administration).

The ES, after carrying out the required checks, forwards the electronic invoice to the addressee Administration, or to a third receiving subject of which the Administration takes avail, through the channels and by the methods indicated in the preceding paragraph 3.

If the same subject acts as transmission intermediary for the supplier and as receiving intermediary for the addressee Administration through the same transmission channel, a simplified flow can be used, the details of which are given in the section *Exchange System – Files, invoices and messages* of the site www.fatturapa.gov.it.

4.5 RECEIPT AND NOTIFICATION MANAGEMENT PROCEDURE

All the transmission channels described in the preceding paragraph 3 anticipate return messages confirming the successful result of the transmission; these are specific messages of the communication infrastructures and guarantee that the message and the attached files are made available by the sender to the receiver.

The ES certifies the execution of the main steps of the electronic invoice transmission process through a communications system based on the forwarding of receipts and notifications according to the methods and channels described in the preceding paragraphs 3.3 and 3.4.

The receipts and notifications management procedure involves:

- the supplier;
- the transmitting subject (if different from the supplier);
- the Exchange System;
- the addressee Administration;
- the receiving subject (if different from the addressee Administration).

The procedure can be summed up as follows:

- a) the ES, after correctly receiving the file, assigns its own identification and carries out the contemplated checks (paragraph 5);
- b) if the results of the checks are unsuccessful, the ES sends a **failure notification** to the transmitting subject (supplier or transmitting third party);
- c) in the case of a successful result of the checks, the ES transmits the electronic invoice to the addressee (Administration or receiving third party) together with a **notification of the invoice file meta data** by which information useful for processing and contact by the receiving party are communicated;
- d) in the case of successful transmission, the ES sends a **delivery receipt** of the electronic invoice to the transmitting subject (supplier or transmitting third party);
- e) in the case in which, for technical reasons not attributable to the ES, transmission to the addressee is not possible within the terms envisaged as found in section 5.1.2 below, the ES sends the transmitter (supplier or third-party transmitter) a **failed delivery notice**; it is still the responsibility of the ES to contact the addressee so that they resolve the problem blocking transmission in a timely manner and, when the problem is resolved, to resend it. If, after 10 days from the date the failed delivery notice was transmitted, the ES has not been able to deliver the electronic invoice to the addressee (Administration or third-party addressee), it sends the transmitter (supplier or third-party transmitter) a definitive **proof of invoice transmission with impossibility of delivery** in accordance with the provisions found in interpretative circular no. 1 of 31 March 2014, issued by the Finance Department of the Ministry of Economy and Finance (MEF), in concert with the Public Function Department of the Chair of the Council of Ministers;
- f) for every electronic invoice delivered to the addressee (Administration or receiving third party), the ES allows to Public Administrations, within 15 days from the first communication sent to the transmitting subject (supplier or transmitting third party), more precisely from the date indicated on the delivery receipt or from the date of the transmission of the failed delivery notification, to send an invoice **acceptance/refusal notification** and provides for forwarding of the same to the transmitting subject (supplier or transmitting third party) in order to complete the communication cycle of the electronic invoice transmission results;
- g) if the ES receives no communication within the aforesaid term of 15 days, it will forward a **term expiry notification** both to the transmitting subject (supplier or transmitting third party) and to the subject which has received the invoice (Administration or receiving third party). The sole function of this notice is to communicate to the two parties that the ES considers the process relative to said invoice to be closed.

The receipts /notifications are prepared in XML format; the technical specifications and the documentation of these messages are given in the document “Structure of the Exchange System communication messages – guide for use” (ref. Appendix B-1).

5. CHECKS CARRIED OUT BY THE ES

For every file correctly received, the ES carries out a series of checks in preparation for forwarding to the addressee.

The purposes of these checks, within the limits of the activity in question, are:

- to minimise the risks of error at the processing stage;
- to act as a filter towards the Administration to prevent, on one side, possible costly litigation and, on the other, to accelerate any corrective action required on the invoices so that the invoicing-payment cycle can be concluded more quickly.

If the results of the checks are not successful, the file will be discarded and consequently it will not be forwarded to the invoice addressee.

5.1 TYPES AND METHODS OF THE CHECKS

Checks are carried out to verify:

- the name of the file transmitted and that it is not a duplicate;
- that the document is intact;
- the authenticity of the signature certificate;
- the conformity of the invoice format;
- the validity of the invoice content;
- that the invoice is unique;
- that the invoice is deliverable.

5.1.1 CHECKS CARRIED OUT ON THE INVOICE FILES

Name format and unique nature of the file transmitted

Verification is carried out in order to intercept the accidental forwarding of duplicate files; by verification of the name of the file received, the ES checks that the file name conforms to the indications given in the preceding paragraph 2.2 and that a file with the same name has not already been sent; in the case of an unsuccessful result (the file name is already present in the ES or the file name does not conform to specifications), the file is refused with the following explanations:

- Code 00001 – Invalid file name;
- Code 00002 – Duplicate file name.

File dimensions

This verification is carried out to guarantee that the file received can be processed correctly and within the contemplated times.

- Code 00003 – File dimensions exceed those admitted

Check on the intact nature of the document

This verification is carried out to guarantee that the document received has not undergone modifications after the application of the signature; by checking the qualified electronic signature applied to the object transmitted, the ES checks the intact nature of the same; if it is found that the document received does not correspond to the document which has been signed, the document is refused with the following explanation:

- Code 00102 – File not intact (invalid signature).

Check on the authenticity of the signature certificate

This verification is carried out to guarantee the validity of the signature certificate used to apply the qualified electronic signature on the document; on the basis of the information made available by the Certification Authorities, the ES checks the validity of the signature certificate, which must not be found as expired, revoked or suspended; in the case of an invalid signature certificate, the document is refused with the following explanations:

- Code 00100 – Signature certificate expired;
- Code 00101 - Signature certificate revoked;
- Code 00104 – CA (Certification Authority) not reliable;
- Code 00107 – Invalid certificate

Check on the conformity of the invoice format

This verification is carried out to guarantee correct processing of the content of the document; on the basis of the indications given in appendix A to Italian Ministerial Decree n° 5 of 3rd April 2013 and in the relative technical specifications published on Exchange System website at www.fatturapa.gov.it, the ES checks correspondence with the XML layout of the file transmitted, including the presence of the obligatory data; in the case of imperfect compliance with the rules, the document is refused with the following explanations:

- Code 00103 – File signed without time reference;
- Code 00105 – File signed with incoherent time reference;
- Code 00106 – Empty or corrupt file/archive;
- Code 00200 – File not conforming to format;
- Code 00201 – Maximum number of format errors exceeded
- Code 00400 – On the VAT detail line equal to zero, the Nature field is missing;
- Code 00401 – On the VAT detail line other than zero, the Nature field must not be present;
- Code 00403 – The invoice date must not be later than the reception date;
- Code 00411 – If there is a detail line with Withholding equal to YES, there must be a GeneralData/GeneralDocumentData/WithholdingData block;
- Code 00413 – In the WelfareFundData block with VAT rate equal to zero, the Nature field is missing;
- Code 00414 – In the WelfareFundData block with VAT rate other than zero, the Nature field must not be present;
- Code 00415 – If there is a WelfareFundData block with Withholding equal to YES, there must be a GeneralData/DocumentGeneralData/WithholdingData block;
- Code 00417 – At least one of the fields VATno. and TaxIDno. of the TransfereePrincipal must be filled in.

Check on the validity of the invoice content

The check is carried out to verify that the document contains the data necessary for the correct forwarding of the same to the addressee; checks are also carried out to prevent the presence of data that are incorrect and/or which cannot be processed. ES checks that certain information has been included on the document transmitted and is valid. Specifically, the following are checked:

- the presence of the addressee's identity code in the database of reference (see section 4.1) and the information necessary for delivery, unless the identity code is "999999" (default value) in accordance with the provisions found in interpretative circular no. 1 of 31 March 2014, cited above (section 4.5, point e). The check also envisages verification of the electronic invoicing

service start date as found in the database of reference, a date that should not be after the date on which the check is carried out (system date);

- the presence, in the database of reference (see section 4.1) of one or more active electronic invoicing offices associated with the tax code that corresponds to the tax ID of the buyer/orderer shown on the invoice, in the cases in which the addressee's identity code is "999999" (default value), in accordance with the provisions found in interpretative circular no. 1 of 31 March 2014, cited above (section 4.5 point e);
- the presence, in the database of reference (see section 4.1), of only one active electronic invoicing office (different from the Central one envisaged in the operating specifications relative to attachment D to Ministerial Decree no. 55 of 3 April 2013) associated with the tax code corresponding with the tax ID of the buyer/orderer shown on the invoice, in the cases in which the addressee's identity code is the Central electronic invoicing code, in accordance with the provisions found in interpretative circular no. 1 of 31 March 2014, cited above (section 4.5 point e);
- the validity of the tax codes and VAT numbers of the CedentePrestatore, RappresentanteFiscale and CessionarioCommittente, by checking their presence in the tax database. This check is not done for tax identity codes assigned by foreign authorities.

If even only one of these checks has a negative result, the document is refused with the following explanations:

- Code 00300 – Invalid transmitter IdFiscale
- Code 00301 – Invalid IdFiscaleIVA of the CedentePrestatore
- Code 00302 – Invalid CodiceFiscale of the CedentePrestatore
- Code 00303 – Invalid IdFiscaleIVA of the RappresentanteFiscale
- Code 00304 – Invalid CodiceFiscale of the RappresentanteFiscale
- Code 00305 – Invalid IdFiscaleIVA of the CessionarioCommittente
- Code 00306 – Invalid CodiceFiscale of the CessionarioCommittente
- Code 00311 – Invalid CodiceDestinatario
- Code 00312 – CodiceDestinatorio not active
- Code 00398 – Office Code present and uniquely identifiable in the database of reference, with a CodiceDestinatario that uses the "Central" office code

- Code 00399 – CodiceFiscale of the CessionarioCommittente present in the database of reference with a CodiceDestinatario of "999999"

Check on invoice non-duplication

This verification is carried out in order to intercept the accidental forwarding of an invoice more than once; the ES checks that the invoice being examined has not already been transmitted and processed; to this regard, if the invoice data relative to:

- the identity of the transferor/supplier;
- document type;
- year of the invoice date;
- invoice number;

coincide with those of an invoice transmitted previously and not officially discarded/refused by either the ES or the addressee (Administration or receiving third party); the document is refused with the following explanations:

Code 00404 – Duplicate invoice

Code 00409 – Batch containing a duplicate invoice

In the case of invoices issued according to procedures and terms established by ministerial decree pursuant to article 73 of Italian Presidential Decree 633/72 and for which "YES" has been entered in the field "Art73" (which allows the transferor/supplier to issue several documents with the same number in the same year), the non-duplication check is carried out by comparison of the file hash which must not coincide with that of a file already transmitted to the ES.

If the file sent to the ES is relative to an invoice batch document (pursuant to art. 1, section 3, of Italian legislative decree n° 52 of 20th February 2004), all the checks described in this paragraph involve the acceptance or refusal of the entire file. Otherwise, if the ES is sent a file in compressed format (ref. preceding par. 2.2 letter c), the checks, with consequent acceptance or refusal, regard each single file in the compressed folder.

5.1.2 PROCESSING TIMES ON THE PART OF THE ES

The table below shows the temporal events (date and time) that characterise the process and they are shown in the ES transmission and delivery notices:

- T₀: the time at which the invoice is received by the ES (DataOraRicezione field in the delivery notice or failed delivery notice);

- T_1 : the time at which the invoice is received by the addressee (DataOraConsegna field in the delivery notice).

To identify these times, below we provide the references used based on the transmission channel selected by the transmitter and the addressee. In any case, the Exchange System registers in its archives the time at which the ES sends the invoice to the addressee, as well as the date/time of the initial delivery attempt in the case of failed delivery.

TRANSMISSION CHANNEL	T_0	T_1
CEM service	Date and time indicated in the <i>delivery receipt</i> sent to the transmitting subject (supplier or third party) by the latter's CEM manager	Date and time indicated in the <i>delivery receipt</i> sent to the ES by the CEM manager of the addressee (Administration or receiving third party)
SDICoop service	Date and time indicated in the " <i>response</i> " of the service made available by the ES	Channel not allowed
SPCoop Service	Date and time indicated in the " <i>response</i> " of the service available from the ES domain port	Date and time indicated in the " <i>response</i> " of the service available from the domain port of the addressee (Administration or receiving third party)
SDIFtp service	Date and time returned by the transmission service	Date and time returned by the transmission service
Telematic transmission via web	Date and time returned by the response message of the forwarding function	Channel not allowed

The estimate of the time that passes between time T_0 and time T_1 can be quantified in an average time of around 48 hours, which varies based on the specifics of the channel chosen by the addressee Administration and the frequency of invoices coming in to the Exchange System.

This estimate also takes into account an average of completion times for operations through the various channels. For example, the technical rules for the Certified

Electronic Mail (CEM) service envisage 24 hours as the maximum time for just the delivery stage.

APPENDIX B-1
STRUCTURE OF THE EXCHANGE SYSTEM COMMUNICATION MESSAGES
GUIDE FOR USE

INTRODUCTION

The messages for the management of the receipts /notifications to be sent to the transmitting subject (supplier or this latter's intermediary) by the ES, or to the ES by the invoice addressee (Administration or this latter's intermediary), are contained in XML files described by the file *MessageTypes_v1.1.xsd* available in the section [Exchange System Documentation](#) of the site www.fatturapa.gov.it, prepared according to the specifications given in the following paragraphs.

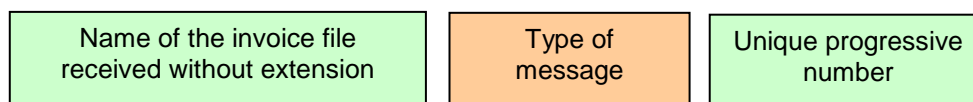
A brief description is given below of the meaning of the columns of the tables:

XML element:	the effective name of the XML tag used during file compilation;
Functional description:	a functional description of the XML element;
Allowed formats and values:	the format type of the value entered and, when relative restrictions are contemplated, all the values admitted for the XML element (data given between square brackets);
Obligatory and necessary:	This indicates whether the value must obligatorily be entered or not, and how many times: <0.1> optional value; if present, it can appear only once <0.N> optional value; if present, it can appear N times <1.1> obligatory value; it must appear only once <1.N> obligatory value; it must appear at least once
Dimension min...max:	This indicates the minimum and maximum dimension of the XML element; if only one dimension number is indicated, the length of the field is exactly equal to that precise value; the wording "Unbounded" indicates an unlimited dimension.

1. DESCRIPTION AND COMPILATION RULES

1.1 FILE NAME FOR THE TRANSMISSION OF RECEIPTS/NOTIFICATIONS

The name of the file for the transmission of the receipts/notifications must be composed as follows:



The *File name of the invoice received without extension* must conform to the rules defined in paragraph 2.2. If the file name does not conform because it is longer than 36 characters, it will be cut short and the extra characters, beyond the 36th, will not be present in the failure notification.

The *Type of message* can be indicated by the values illustrated below:

Value	Description
RC	Delivery receipt
NS	Rejection notice
MC	Failed delivery notice
NE	Outcome notice
MT	Metadata file
EC	Client outcome notice
SE	Client outcome rejection notice
DT	Deadline passed notice
AT	Proof of invoice transmission with impossibility of delivery

The *Unique progressive number*, which unequivocally identifies every notification/receipt relative to the file transmitted, must be an alphanumeric string of no more than 3 characters with admitted values [a-z],[A-Z],[0-1].

The elements of which the file name is composed are separated by the *underscore* (“_”) character, ASCII code 95, and the extension is always “.xml”.

If the ES has received a compressed file, referred to in the preceding paragraph 2.2 letter c), (e.g. *ITAAABBB99T99X999W_00001.zip*) and access to the content is impossible because it is “corrupt”, the file name by which the ES forwards the failure notification to the transmitting subject will be the following:

ITAAABBB99T99X999W_00001_NS_001.xml

An exception to these nomenclature rules is the *Proof of invoice transmission with impossibility of delivery* (see section 1.10). In this case, if the ES receives a file with the name *ITAAABBB99T99X999W_00001.xml*, it sends the transmitting subject the following .zip file

ITAAABBB99T99X999W_00001_AT_001.zip

which contains within it the file received (*ITAAABBB99T99X999W_00001.xml*) and the proof notice (*ITAAABBB99T99X999W_00001_AT_001.xml*).

1.2 DELIVERY RECEIPT

This is the receipt **sent by the ES to the transmitting subject** to communicate delivery of the file to the addressee.

For all transmission channels, it is represented by an XML file with electronic signature, not qualified, containing the following information:

XML element	Functional description	Admitted formats and values	Obligatory and necessary	Dim. min-max
IdentificativoSDI	Number assigned by the Exchange System to the file received	numeric format	<1.1>	12
NomeFile	Name assigned to the file according to the Technical Disciplinary rules	alphanumeric format	<1.1>	1 ... 50
DataOraRicezione	Date and time at which the file is received by the Exchange System	The format is that of ISO 8601:2004; specifically: YYYY-MM-DD-HH:MM	<1.1>	16
DataOraConsegna	Date and time at which the file is delivered by the Exchange System	The format is that of ISO 8601:2004; specifically: YYYY-MM-DD-HH:MM	<1.1>	16
Destinatario	Block containing the information relative to the invoice addressee (Office Code and Name as indicated in the PA Register)	complex field	<1.1>	
RiferimentoArchivio	Optional - Value present if the invoice Delivery Receipt belongs to an archive file.	complex field	<0.1>	
MessageID	Message identification	numeric format	<1.1>	1 ..999999999999999
PecMessageId	Optional – Present only for messages sent by the CEM channel. Identification of the CEM message	alphanumeric format	<0.1>	unbounded
Note	Optional – Field containing any additional information	alphanumeric format	<0.1>	unbounded

Table 1

The receipt is signed by XAdES technology; therefore it will contain, in addition to the XML elements indicated above, the **ds:Signature** tag. It refers to the namespace: <http://www.w3.org/2000/09/xmldsig#> .

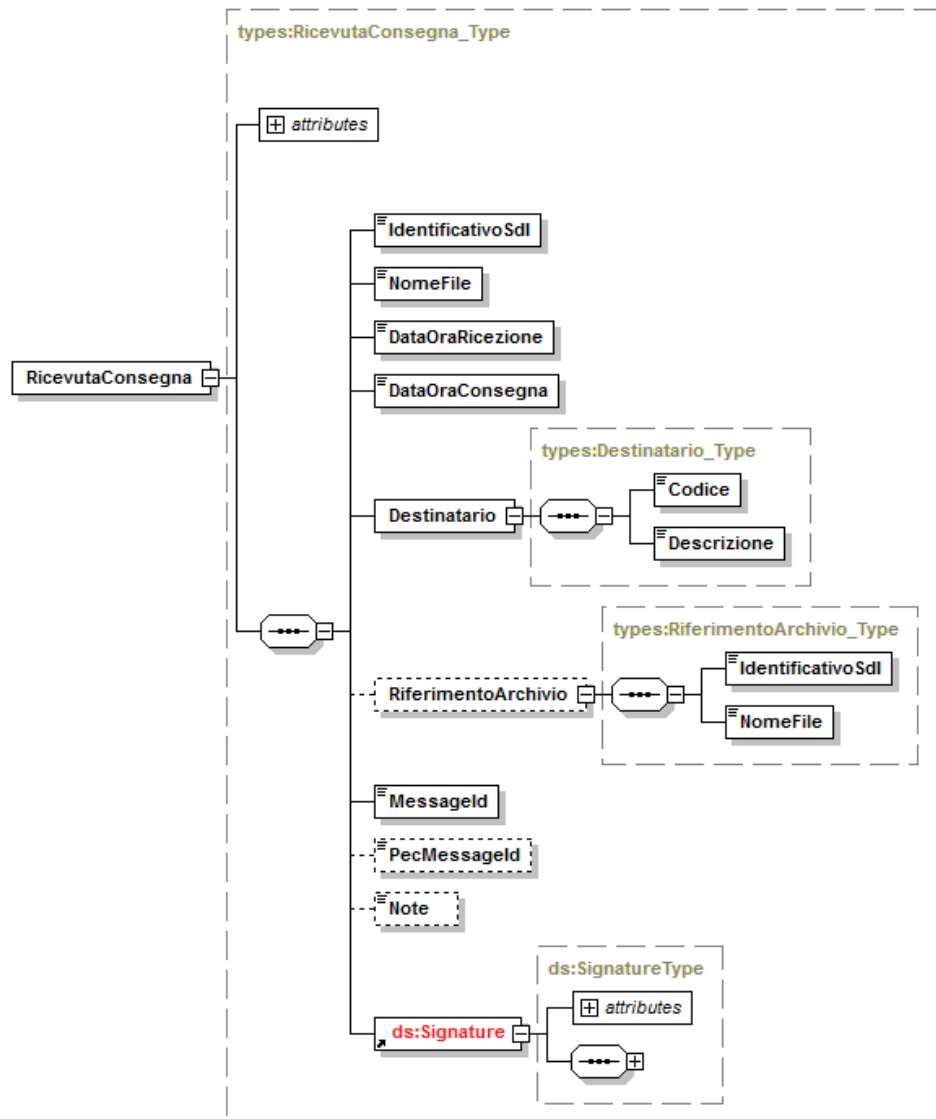


Figure 1

1.3 REJECTION NOTICE

This notification is **sent by the ES to the transmitting subject** if one or more of the checks carried out by the ES on the file received do not have a successful result.

For all transmission channels, it is represented by an XML file with electronic signature, not qualified, containing the following information:

<i>XML element</i>	<i>Functional description</i>	<i>Admitted formats and values</i>	<i>Obligatory and necessary</i>	<i>Dim. min-max</i>
IdentificativoSDI	Number assigned by the Exchange System to the file received	numeric format	<1.1>	12
NomeFile	Name assigned to the file according to the Technical Disciplinary rules	alphanumeric format	<1.1>	1 ... 50
DataOraRicezione	Date and time at which the file is received by the Exchange System	The format is that of ISO 8601:2004; specifically: YYYY-MM-DD-HH:MM	<1.1>	16
RiferimentoArchivio	Optional – Value present if the Delivery Receipt is relative to an invoice belonging to an archive file	complex field	<0.1>	
ListaErrori	List of errors detected.	complex field	<1.1>	
MessageID	Message identification	numeric format	<1.1>	1 ... 999999999999999
PecMessageId	Optional – Present only in the case of messages sent via the CEM channel. Identification of the CEM message	alphanumeric format	<0.1>	unbounded
Note	Optional – Field containing any additional information	alphanumeric format	<0.1>	unbounded

Table 2

The notification is signed by means of XAdES technology; therefore it will contain, in addition to the XML elements indicated above, the **ds:Signature** tag. It refers to the namespace: <http://www.w3.org/2000/09/xmldsig#>.

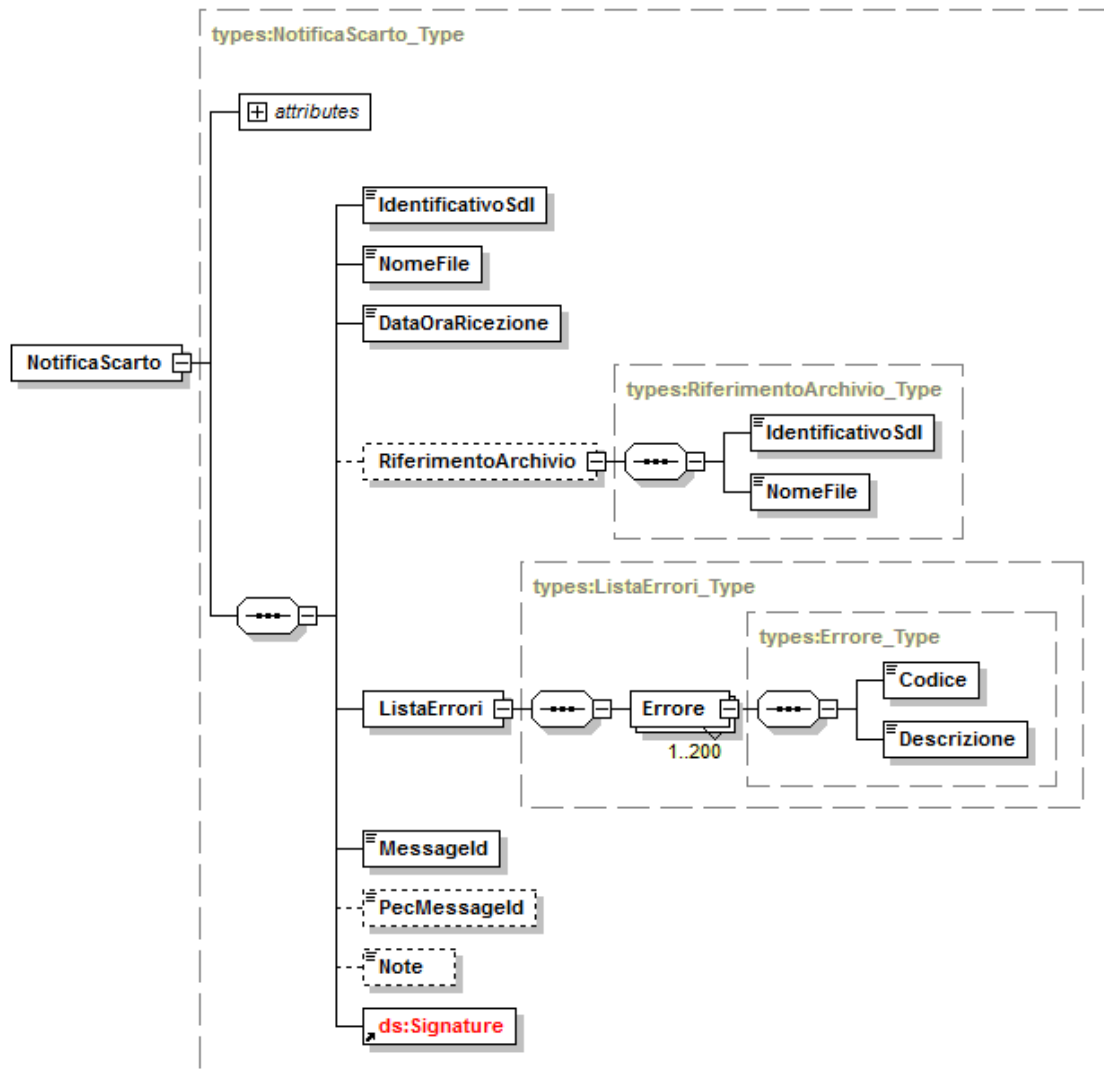


Figure 2

1.4 FAILED DELIVERY NOTICE

This is the notification **sent by the ES to the transmitting subject** if the file is not delivered to the addressee.

For all transmission channels, it is represented by an XML file with electronic signature, not qualified, containing the following information:

<i>XML element</i>	<i>Functional description</i>	<i>Admitted formats and values</i>	<i>Obligatory and necessary</i>	<i>Dim. min-max</i>
IdentificativoSDI	Number assigned by the Exchange System to the file received	numeric format	<1.1>	12
NomeFile	Name assigned to the file according to the Technical Disciplinary rules	alphanumeric format	<1.1>	1 ... 50
DataOraRicezione	Date and time at which the file is received by the Exchange System	The format is that of ISO 8601:2004; specifically: YYYY-MM-DD-HH:MM	<1.1>	16
RiferimentoArchivio	Optional – Value present if the Delivery Receipt is relative to an invoice belonging to an archive file	complex field	<0.1>	
Descrizione	Optional – Description of the reasons for the non-delivery	alphanumeric format	<0.1>	1 ... 255
MessageID	Message identification	numeric format	<1.1>	1 ... 999999999999999
PecMessageId	Optional – Present only in the case of messages sent via the CEM channel. Identification of the CEM message	alphanumeric format	<0.1>	unbounded
Note	Optional – Field containing any additional information	alphanumeric format	<0.1>	unbounded

Table 3

The notification is signed by means of XAdES technology; therefore it will contain, in addition to the XML elements indicated above, the **ds:Signature** tag. It refers to the namespace: <http://www.w3.org/2000/09/xmldsig#>.

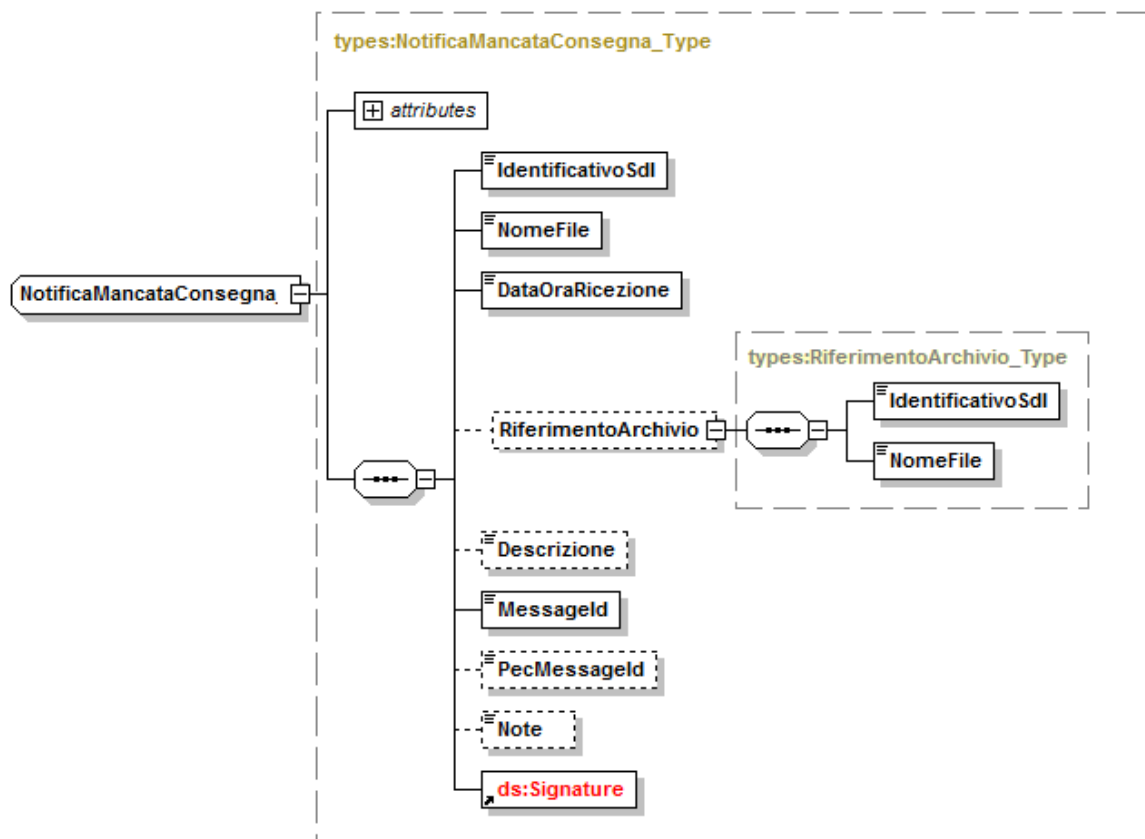


Figure 3

1.5 CLIENT OUTCOME NOTICE

This is the notification **sent by the addressee to the ES** to communicate the result (acceptance or refusal of the invoice) of the checks carried out on the document received.

For all transmission channels, it is represented by an XML file with electronic signature, not qualified, containing the following information:

<i>XML element</i>	<i>Functional description</i>	<i>Admitted formats and values</i>	<i>Obligatory and necessary</i>	<i>Dim. min-max</i>
IdentificativoSDI	Number assigned by the Exchange System to the file received	numeric format	<1.1>	12
RiferimentoFattura	Optional – This describes to which invoice the result refers; if blank, it refers to all the invoices of the file	complex field	<0.1>	
Esito	Result of the checks carried out on the invoice by the addressee.	alphanumeric format Values admitted: [EC01] (values <i>Approved</i>) [EC02] (values <i>Rejected</i>)	<1.1>	4
Descrizione	Optional – Description of the reasons for the refusal	alphanumeric format	<0.1>	1 ... 255
MessageIdCommittente	Message identification assigned by the customer	alphanumeric format	<0.1>	1 ... 14

Table 4

The notification can be signed **optionally** by means of XAdES technology; in which case it will include, in addition to the XML elements indicated above, the **ds:Signature** tag. It refers to the namespace: <http://www.w3.org/2000/09/xmldsig#>.

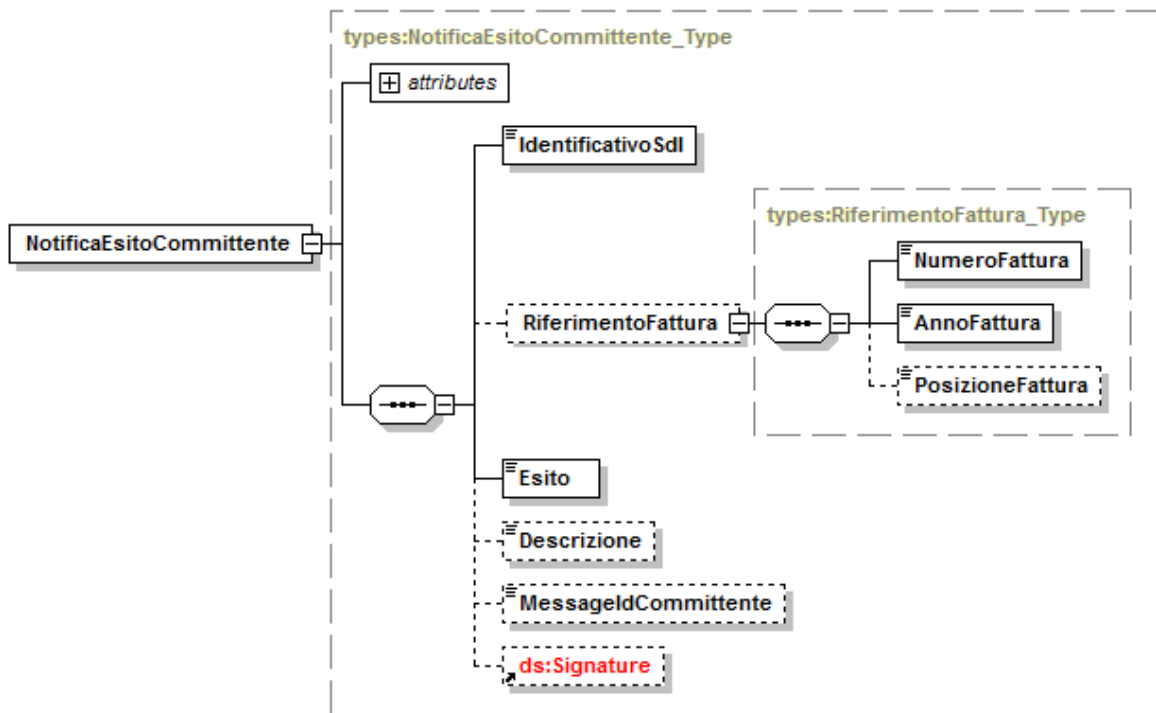


Figure 4

1.6 CLIENT OUTCOME REJECTION NOTICE

This notification is **sent by the ES to the addressee** to communicate possible inconsistencies or errors in the result previously sent to the ES (acceptance or refusal of the invoice).

For all transmission channels, it is represented by an XML file with electronic signature, not qualified, containing the following information:

<i>XML element</i>	<i>Functional description</i>	<i>Admitted formats and values</i>	<i>Obligatory and necessary</i>	<i>Dim. min-max</i>
IdentificativoSDI	Number assigned by the Exchange System to the file received	numeric format	<1.1>	12
RiferimentoFattura	Optional – This describes to which invoice the result refers	complex field	<0.1>	
Scarto	Reason for the failure	alphanumeric format Values admitted: [EN00] (values <i>No compliant to the format</i>) [EN01] (values <i>No admissible</i>)	<1.1>	4
MessageID	Message identification	numeric format	<1.1>	1 ... 99999999999999
MessageIDCommittente	Message identification assigned by the customer	alphanumeric format	<0.1>	1 ... 14
PecMessageID	Optional – Present only in the case of messages sent via the CEM channel. Identification of the CEM message	alphanumeric format	<0.1>	unbounded
Note	Optional – Field containing any additional information	alphanumeric format	<0.1>	unbounded

Table 5

The notification is signed by means of XAdES technology; therefore it will contain, in addition to the XML elements indicated above, the **ds:Signature** tag. It refers to the namespace: <http://www.w3.org/2000/09/xmldsig#> .

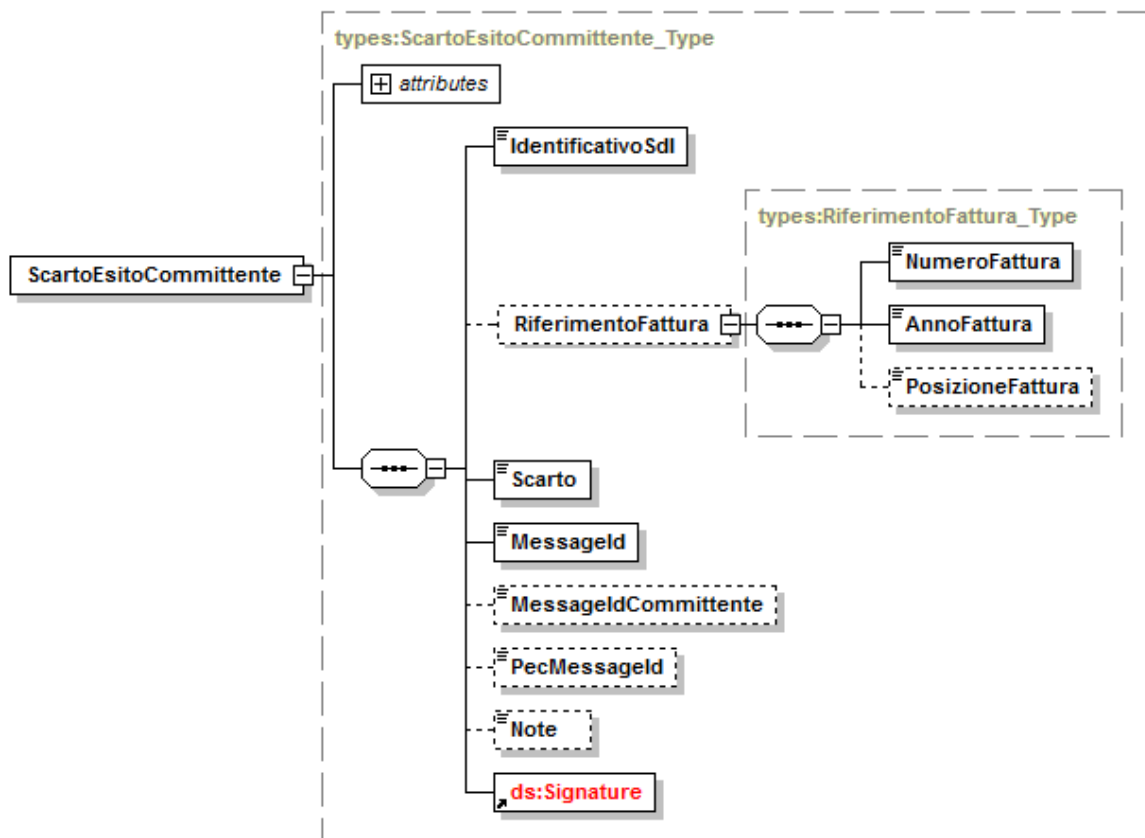


Figure 5

1.7 OUTCOME NOTICE

This notification is **sent by the ES to the invoice sender** to communicate the result (acceptance or refusal of the invoice) of the checks carried out on the document by the addressee.

For all transmission channels, it is represented by an XML file with electronic signature, not qualified, containing the following information:

<i>XML element</i>	<i>Functional description</i>	<i>Admitted formats and values</i>	<i>Obligatory and necessary</i>	<i>Dim. min-max</i>
IdentificativoSDI	Number assigned by the Exchange System to the file received	numeric format	<1.1>	12
NomeFile	Name of the file to which the result refers	alphanumeric format	<1.1>	1 ... 50
EsitoCommittente	Result on the part of the customer relative to the invoice sent	complex field	<1.1>	
MessageID	Message identification	numeric format	<1.1>	1 ... 99999999999999
PecMessageId	Optional – Present only in the case of messages sent via the CEM channel. Identification of the CEM message	alphanumeric format	<0.1>	unbounded
Note	Optional – Field containing any additional information	alphanumeric format	<0.1>	unbounded

Table 6

The notification is signed by means of XAdES technology; therefore it will contain, in addition to the XML elements indicated above, the **ds:Signature** tag. It refers to the namespace: <http://www.w3.org/2000/09/xmldsig#>.

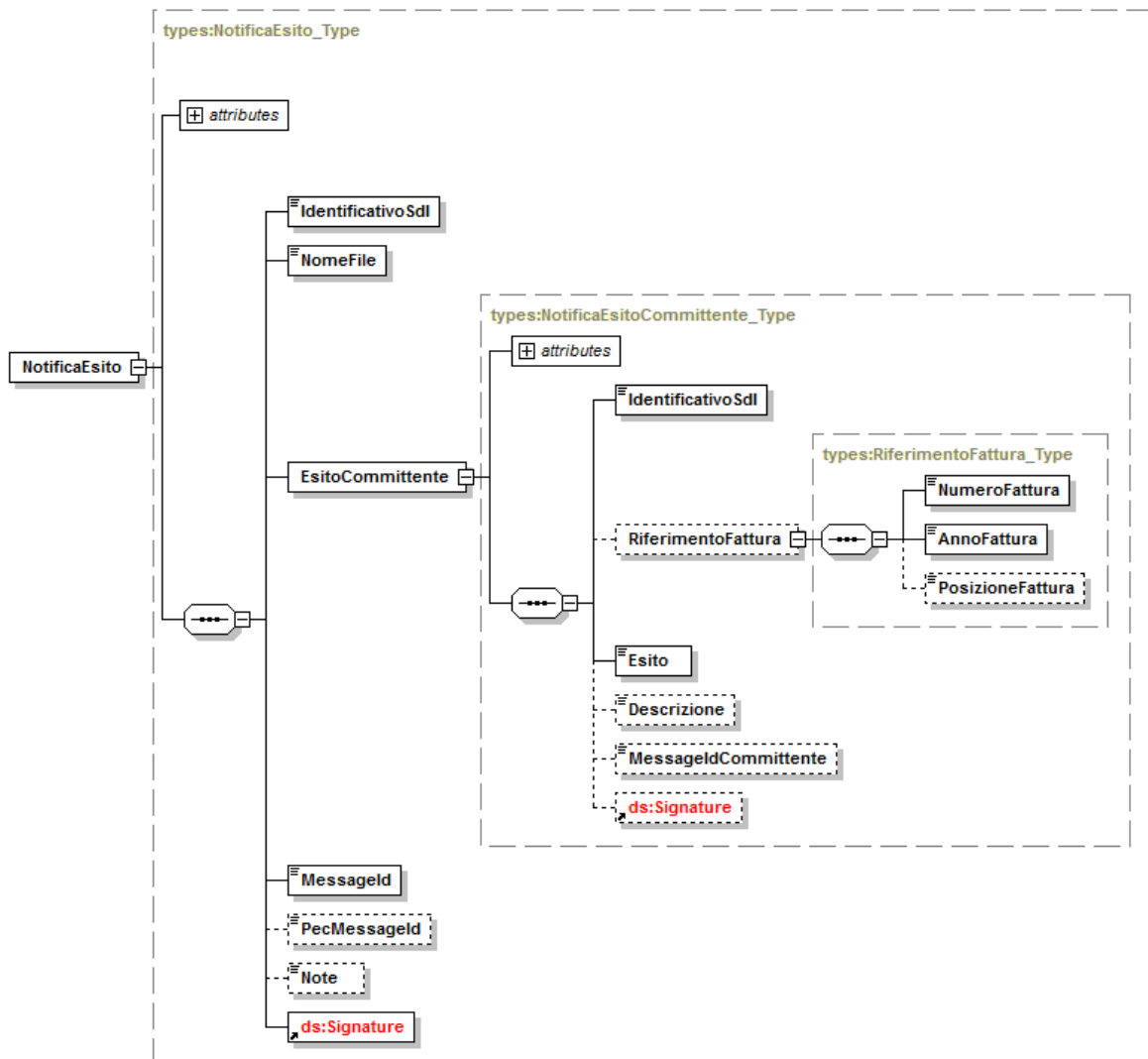


Figure 6

1.8 DEADLINE PASSED NOTICE

This is the notification **sent by the ES to both the invoice sender and the invoice addressee** to communicate the expiry of the maximum term for communication of acceptance/refusal.

For all transmission channels, it is represented by an XML file with electronic signature, not qualified, containing the following information:

<i>XML element</i>	<i>Functional description</i>	<i>Admitted formats and values</i>	<i>Obligatory and necessary</i>	<i>Dim. min-max</i>
IdentificativoSDI	Number assigned by the Exchange System to the file received	numeric format	<1.1>	12
RiferimentoFattura	Optional – This describes to which invoice the result refers	complex field	<0.1>	
NomeFile	Name of the file to which the notification refers	alphanumeric format	<1.1>	1 ... 50
Descrizione	Optional – Description of the reason for the notification	alphanumeric format	<0.1>	1 ... 255
MessageID	Message identification	numeric format	<1.1>	1 ... 99999999999999
PecMessageId	Optional – Present only in the case of messages sent via the CEM channel. Identification of the CEM message	alphanumeric format	<0.1>	unbounded
Note	Optional – Field containing any additional information	alphanumeric format	<0.1>	unbounded

Table 7

The notification is signed by means of XAdES technology; therefore it will contain, in addition to the XML elements indicated above, the **ds:Signature** tag. It refers to the namespace: <http://www.w3.org/2000/09/xmldsig#>.

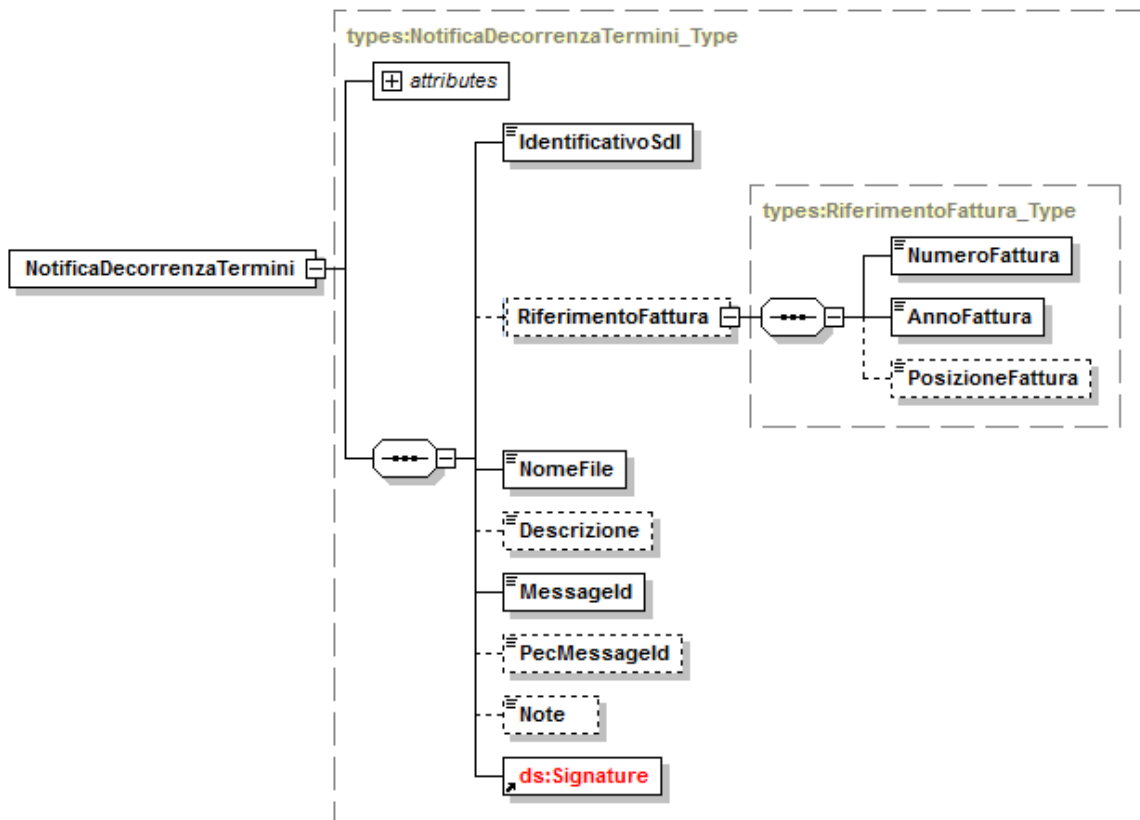


Figure 7

1.9 METADATA FILE

This is the file **sent by the ES to the addressee** together with the invoice file, containing the main reference data of the file useful for processing, including the IdentificativoSDI.

<i>XML element</i>	<i>Functional description</i>	<i>Admitted formats and values</i>	<i>Obligatory and necessary</i>	<i>Dim. min-max</i>
IdentificativoSDI	Number assigned by the Exchange System to the file received	numeric format	<1.1>	12
NomeFile	Name of the file to which the notification refers	alphanumeric format	<1.1>	1 ... 50
CodiceDestinatario	Code of the office to which the invoice is addressed, as described in the PA Register	alphanumeric format	<1,1>	1 ... 6
Formato	Identification of the invoice format version	alphanumeric format	<1,1>	5
TentativInvio	Progressive number which identifies the transmission, normally equal to 1; in the case of more than 1 attempt, the number progressively increases	numeric format	<1.1>	1
MessageID	Message identification	numeric format	<1.1>	1 ... 99999999999999
Note	Optional – Field containing any additional information	alphanumeric format	<0.1>	unbounded

Table 8

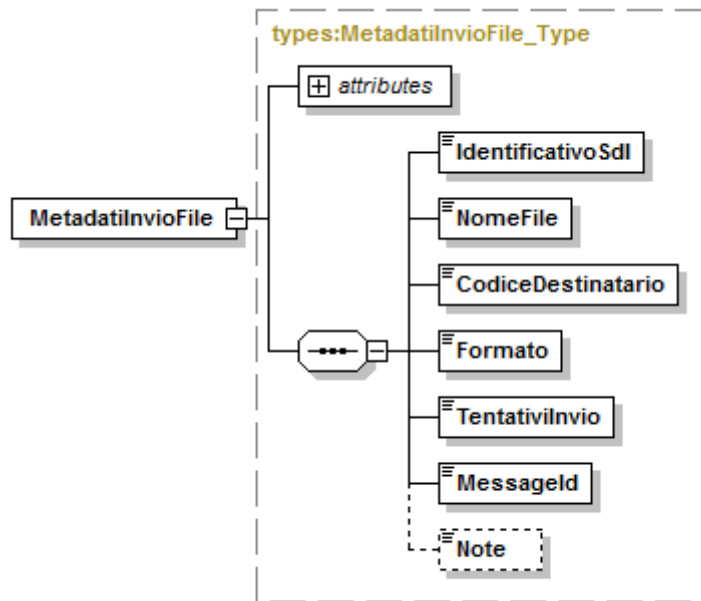


Figure 8

1.10 PROOF OF INVOICE TRANSMISSION WITH IMPOSSIBILITY OF DELIVERY

This is the notice sent by the ES to the transmitter of the invoice to certify that it has received the invoice and that the file could not be delivered to the addressee. The cases can refer to:

- the presence of an addressee code of "999999" and the impossibility to uniquely identify in the database of reference (see section 4.1) an electronic invoicing office associated with the tax code corresponding with the tax identity of the buyer/orderer shown on the invoice;
- the lack of a technical means to communicate with the addressee.

For all transmission channels, this is a .zip file, containing:

- the original file as received from the transmitter
- a signed xml file (non-qualified electronic signature), containing the following information:

XML Element	Functional description	Formats and values allowed	Compulsory and required	Dim. min-max
IdentificativoSDI	Identification number attributed to the file received by the Exchange System	Numeric format	<1.1>	12
NomeFile	Name of the file the notice refers to	Alphanumeric format	<1.1>	1 ... 50
DataOraRicezione	Date and time at which the file was received by the Exchange System	The date is formatted according to ISO 8601:2004, with the following precision: YYYY-MM-DD-HH:MM	<1.1>	16
RiferimentoArchivio	Optional. Included in the case of a notice relative to an invoice in an archived file.	Complex field	<0.1>	
Destinatario	Code and description of the office to which the invoice is addressed as indicated in the IPA index	Complex field	<1.1>	
MessageId	Message identity code	Numeric format	<1.1>	1 ... 99999999999999

PecMessageId	Optional. Present only in the case of messages sent using the CEM channel. Identity code of the CEM message	Alphanumeric format	<0.1>	unbounded
Note	Optional. Field containing any additional information.	Alphanumeric format	<0.1>	unbounded
HashFileOriginale	Obligatory. Field containing the hash (SHA-256) of the file received	Alphanumeric format	<1.1>	unbounded

Table 9

The proof notice is signed using XAdES technology, meaning that in addition to the XML elements indicated above, it also contains the **ds:Signature** tag. This refers to the namespace: <http://www.w3.org/2000/09/xmldsig#> .

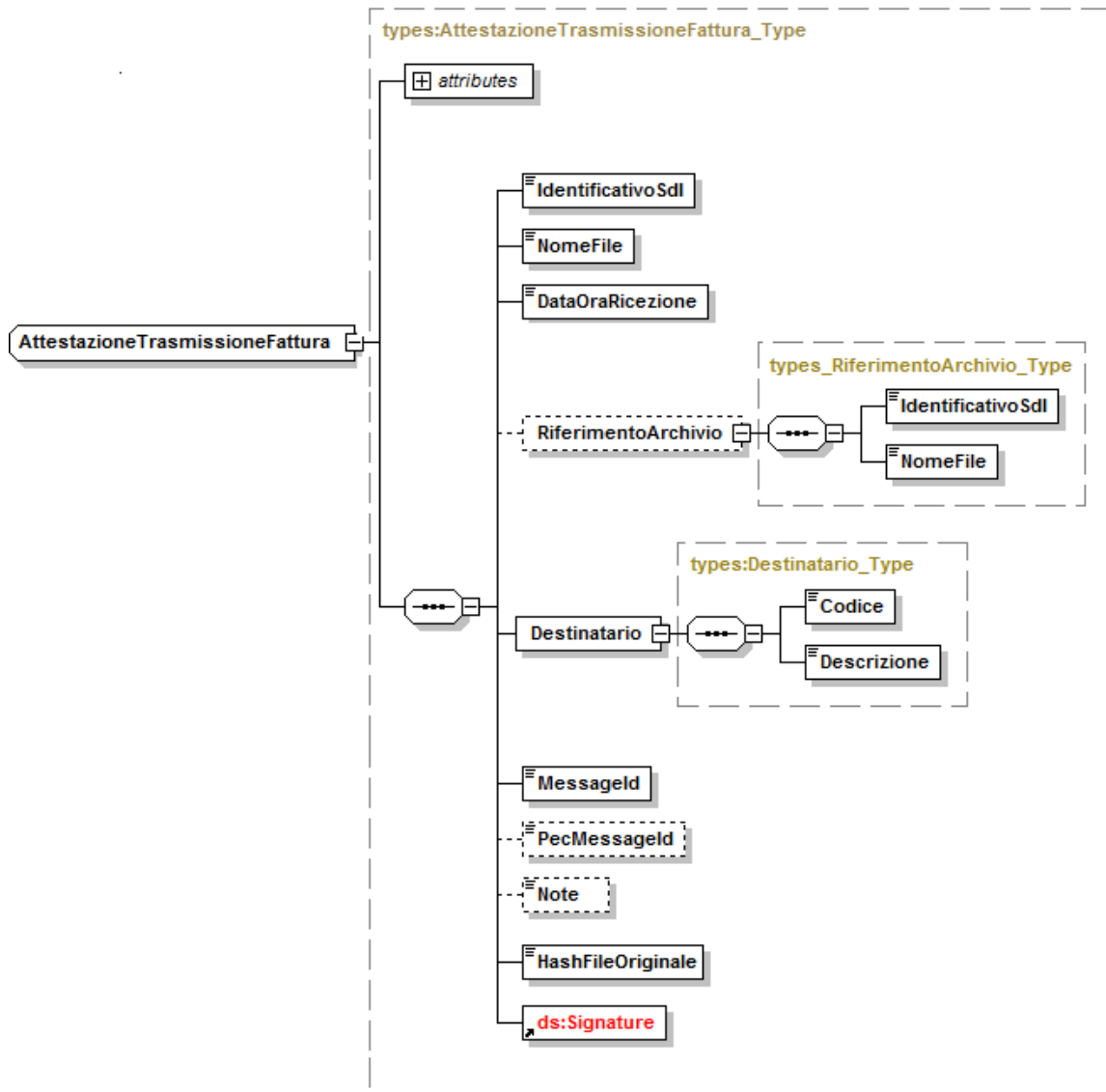


Figure 9